

**DISTILLATION,
SEPARATION &
FILTRATION**



ERLENMEYER FLASKS

The LABSOLUTE® Erlenmeyer flasks with durable volume scale are made of high-quality borosilicate glass 3.3 and are therefore extremely temperature-resistant up to 500 °C. The wide-neck and narrow-neck flasks, as well as the flasks with standard ground joint comply with the valid standards. The flasks are resistant to cold lyes/alkaline solutions and strong acids with the exception of hydrofluoric acid and concentrated, hot phosphoric acid.

ERLENMEYER FLASKS, WITH STANDARD GROUND JOINT, BOROSILICATE GLASS 3.3

Comply with DIN EN ISO 4797. Without stopper. Compatible with all stoppers with standard ground joint made of glass or plastic.



Capacity ml	Socket NS	Flask Ø mm	Height mm	PK	Art. no.
25	14/23	42	75	1	7.690 210
50	14/23	51	85	1	7.690 211
100	14/23	64	105	1	7.690 212
50	29/32	51	85	1	7.690 213
100	29/32	64	105	1	7.690 214
200	29/32	79	131	1	7.690 215
250	29/32	85	140	1	7.690 216
300	29/32	87	156	1	7.690 217
500	29/32	105	175	1	7.690 218
1000	29/32	131	220	1	7.690 219
2000	29/32	166	280	1	7.690 220

ROUND BOTTOM FLASKS

The LABSOLUTE® round bottom flasks made of high-quality borosilicate glass 3.3 comply with the valid standards. They are available in different volumes and have the common ground joint sizes. All LABSOLUTE® round bottom flasks are characterized by very good chemical and temperature resistance. Because of the round shape, the flasks are ideal for consistent heating of liquids. Due to the standard ground joints, the flasks can be easily combined with other glass labware such as condensers.

ROUND BOTTOM FLASKS, WITH STANDARD GROUND JOINT, BOROSILICATE GLASS 3.3

Comply with DIN EN ISO 4797.

Capacity ml	Socket NS	Flask Ø mm	Height mm	PK	Art. no.
10	14/23	33	70	1	7.690 100
25	14/23	41	85	1	7.690 101
50	14/23	51	90	1	7.690 102
50	29/32	51	90	1	7.690 103
100	14/23	64	105	1	7.690 104
100	29/32	64	105	1	7.690 105
250	29/32	85	140	1	7.690 106
500	29/32	105	163	1	7.690 107
1000	29/32	131	200	1	7.690 108
2000	29/32	165	240	1	7.690 109



TWO NECK ROUND BOTTOM FLASKS, SIDE NECK 20°, BOROSILICATE GLASS 3.3

Comply with DIN 12394.

Capacity ml	Centre neck NS	Side neck NS	Flask Ø mm	Height mm	PK	Art. no.
25	14/23	14/23	41	85	1	7.690 130
50	14/23	14/23	51	90	1	7.690 131
100	14/23	14/23	64	105	1	7.690 132
100	29/32	14/23	64	105	1	7.690 133
250	29/32	14/23	85	140	1	7.690 134
500	29/32	14/23	105	163	1	7.690 135
1000	29/32	14/23	131	200	1	7.690 136



THREE NECK ROUND BOTTOM FLASKS, SIDE NECKS PARALLEL, BOROSILICATE GLASS 3.3

Comply with DIN 12394.



Capacity ml	Centre neck NS	Side neck NS	Flask Ø mm	Height mm	PK	Art. no.
100	29/32	14/23	64	105	1	7.690 160
250	29/32	14/23	85	140	1	7.690 161
250	29/32	29/32	85	140	1	7.690 170
500	29/32	14/23	105	163	1	7.690 162
500	29/32	29/32	105	163	1	7.690 171
1000	29/32	14/23	131	200	1	7.690 163
1000	29/32	29/32	131	200	1	7.690 172
2000	29/32	14/23	165	240	1	7.690 164
2000	29/32	29/32	165	240	1	7.690 173
3000	29/32	29/32	185	260	1	7.690 174
5000	29/32	29/32	223	305	1	7.690 175

THREE NECK ROUND BOTTOM FLASKS, SIDE NECKS 20°, BOROSILICATE GLASS 3.3

Comply with DIN 12394.



Capacity ml	Centre neck NS	Sideneck NS	Flask Ø mm	Height mm	PK	Art. no.
50	29/32	14/23	51	90	1	7.690 140
100	29/32	14/23	64	105	1	7.690 141
250	29/32	14/23	85	140	1	7.690 142
250	29/32	29/32	85	140	1	7.690 150
500	29/32	14/23	105	163	1	7.690 143
500	29/32	29/32	105	163	1	7.690 151
1000	29/32	14/23	131	200	1	7.690 144
1000	29/32	29/32	131	200	1	7.690 152
2000	29/32	14/23	166	240	1	7.690 145
2000	29/32	29/32	166	240	1	7.690 153

FLAT BOTTOM FLASKS, WITH STANDARD GROUND JOINT, BOROSILICATE GLASS 3.3

The LABSOLUTE® one neck flat bottom flasks are made of high-quality borosilicate glass 3.3 and therefore extremely temperature-resistant up to 500 °C. The flasks comply with the standard DIN EN ISO 4797. They are resistant to cold lyes/alkaline solutions and strong acids with the exception of hydrofluoric acid and concentrated, hot phosphoric acid. Because of the round shape the flasks are ideal for a consistent heating of liquids. The flat bottom guarantees a secure stand on the lab bench. Due to the standard ground joint the flasks can be easily combined with several other glass labware like condensers, etc.

Capacity ml	Socket NS	Flask Ø mm	Height mm	PK	Art. no.
50	29/32	51	85	1	7.690 110
100	29/32	64	103	1	7.690 111
250	29/32	85	130	1	7.690 112
500	29/32	105	160	1	7.690 113
1000	29/32	131	187	1	7.690 114
2000	29/32	166	230	1	7.690 115



PEAR SHAPED FLASKS, WITH STANDARD GROUND JOINT, BOROSILICATE GLASS 3.3

The LABSOLUTE® one neck pear shaped flasks are made of high-quality borosilicate glass 3.3 and therefore extremely temperature-resistant up to 500 °C. The flasks comply with the standard DIN 12383. They are resistant to cold lyes/alkaline solutions and strong acids with the exception of hydrofluoric acid and concentrated, hot phosphoric acid.

Capacity ml	Socket NS	Flask Ø mm	Height mm	PK	Art. no.
10	14/23	31	74	1	7.690 120
25	14/23	42	90	1	7.690 121
50	14/23	51	100	1	7.690 122
50	29/32	51	100	1	7.690 123
100	14/23	64	130	1	7.690 124
100	29/32	64	130	1	7.690 125
250	14/23	85	150	1	7.690 126



LABSOLUTE® stoppers please see page 77

REFLUX CONDENSER



The LABSOLUTE® reflux condenser made of high-quality borosilicate glass 3.3 comply with the actual valid standards. You can choose between condenser according to Allihn, Dimroth and Liebig in several length and with different socket and cone connections. The water connection goes via a GL14 screw thread in combination with PP olives or via simple glass olives. All reflux condenser win over a very good chemical resistance and a high temperature resistance. You can use our LABSOLUTE® condenser for distillation, chemical synthesis, and many more laboratory applications.

CONDENSER ACC. TO ALLIHN, PP OLIVES, BOROSILICATE GLASS 3.3

Comply with DIN 12581. Water connectors with GL14 thread.

Effective length mm	Cone NS	Socket NS	PK	Art. no.
160	29/32	29/32	1	7.690 330
250	29/32	29/32	1	7.690 331
400	29/32	29/32	1	7.690 332



CONDENSER ACC. TO DIMROTH, GLASS OLIVES, BOROSILICATE GLASS 3.3

Comply with DIN 12591. Water connectors with glass olives.

Effective length mm	Cone NS	Socket NS	PK	Art. no.
160	14/23	14/23	1	7.690 310
160	29/32	14/23	1	7.690 311
250	14/23	14/23	1	7.690 312
250	29/32	29/32	1	7.690 313
400	29/32	29/32	1	7.690 314



CONDENSER ACC. TO DIMROTH, PP OLIVES, BOROSILICATE GLASS 3.3

Comply with DIN 12591. Water connectors with GL14 thread.

Effective length mm	Cone NS	Socket NS	PK	Art. no.
160	14/23	14/23	1	7.690 300
250	29/32	29/32	1	7.690 301
400	29/32	29/32	1	7.690 302

CONDENSER ACC. TO DIMROTH FOR SOXHLET, PP OLIVES, BOROSILICATE GLASS 3.3

The LABSOLUTE® Dimroth condenser for Soxhlet application comply with DIN 12591. Water connectors with GL14 thread.

For volume ml	Cone NS	PK	Art. no.
30	29/32	1	7.690 320
70	34/35	1	7.690 321
100	45/40	1	7.690 322



CONDENSER ACC. TO LIEBIG, PP OLIVES, BOROSILICATE GLASS 3.3

Comply with DIN 12576. Water connectors with GL14 thread.

Effective length mm	Cone NS	Socket NS	PK	Art. no.
160	14/23	14/23	1	7.690 350
250	29/32	29/32	1	7.690 351
400	29/32	29/32	1	7.690 352



GL SCREW CAPS WITH OLIVE, PP

The LABSOLUTE® GL14 screw caps with PP olive are a perfect, economic spare part for all LABSOLUTE® reflux condenser according to Allihn, Dimroth, and Liebig, that come with such a connection. Due to the additional silicone ring the connection is 100 % tight.

Description	PK	Art. no.
GL14, straight	2	7.690 390



SEPARATING FUNNELS ACC. TO SQUIBB



The LABSOLUTE® separating funnels according to Squibb are made of high-quality borosilicate glass 3.3 and are therefore characterized by an extremely temperature-resistance up to 500 °C as well as a very good chemical resistance. The funnels are available with and without graduation. Production is compliant with DIN ISO 4800. They are sold including a PTFE stopcock and a PP stopper. The chemical resistance mainly depends on the resistance of the PP stopper.

SEPARATING FUNNELS ACC. TO SQUIBB, BOROSILICATE GLASS 3.3

Capacity ml	Socket NS	Bore mm	PK	Art. no.
50	19/26	2.5	1	7.690 240
100	19/26	2.5	1	7.690 241
250	29/32	4.0	1	7.690 242
500	29/32	4.0	1	7.690 243
1000	29/32	6.0	1	7.690 244
2000	29/32	6.0	1	7.690 245



SEPARATING FUNNELS ACC. TO SQUIBB, GRADUATED, BOROSILICATE GLASS 3.3

Graduation in white enamel colour.

Capacity ml	Socket NS	Bore mm	PK	Art. no.
50	19/26	2.5	1	7.690 230
100	19/26	2.5	1	7.690 231
250	29/32	4.0	1	7.690 232
500	29/32	4.0	1	7.690 233
1000	29/32	6.0	1	7.690 234
2000	29/32	6.0	1	7.690 235

EXPANSION AND REDUCTION ADAPTERS, BOROSILICATE GLASS 3.3



The LABSOLUTE® expansion and reduction adapters are made of high-quality borosilicate glass 3.3. They are the perfect addition, if you want to expand a 14/23 to a 29/32 ground joint or reduce it visa versa.

Description	Socket NS	Cone NS	PK	Art. no.
Reduction adapter	14/23	29/32	1	7.690 225
Expansion adapter	29/32	14/23	1	7.690 226

STOPPERS, HDPE

The white, octagonal LABSOLUTE® stoppers made of HDPE according to DIN 12254 are the perfect complement to the LABSOLUTE® volumetric flasks made of clear or amber glass and to all other laboratory glassware with a standard ground joint.

NS	PK	Art. no.
7/16	1	7.691 081
10/19	1	7.691 082
12/21	1	7.691 083
14/23	1	7.691 084
19/26	1	7.691 085
24/29	1	7.691 086
29/32	1	7.691 087
34/35*	1	7.691 088
45/40*	1	7.691 089
60/46*	1	7.691 090

* In addition to the standard



HOLLOW GLASS STOPPERS, TYPE C, BOROSILICATE GLASS 3.3

The LABSOLUTE® hexagonal hollow glass stoppers with standard ground joint and pointed bottom are made of high-quality borosilicate glass 3.3 and are therefore extremely temperature-resistant up to 500 °C. The stoppers comply with the DIN 12252 form C standard. They are resistant to cold lyes/alkaline solutions and strong acids with the exception of hydrofluoric acid and concentrated, hot phosphoric acid. The stoppers can be easily combined with all glass products that have a ground joint like measuring flasks, Erlenmeyer flasks, round bottom flasks, etc.

NS	PK	Art. no.
10/19	1	7.691 091
12/21	1	7.691 092
14/23	1	7.691 093
19/26	1	7.691 094
24/29	1	7.691 095
29/32	1	7.691 096



EVAPORATING FLASKS, PEAR-SHAPED, BOROSILICATE GLASS 3.3

The LABSOLUTE® evaporating flasks are made of high-quality borosilicate glass 3.3. All flasks are characterized by very good chemical and temperature resistance. They are especially designed for the use with every common rotary evaporator.

Capacity ml	Flask Ø mm	Socket NS	PK	Art. no.
100	62	29/32	1	7.690 180
250	83	29/32	1	7.690 181
500	101	29/32	1	7.690 182
1000	128	29/32	1	7.690 183
2000	160	29/32	1	7.690 184



CENTRIFUGE TUBES, PP

The LABSOLUTE® tubes have very good thermal, mechanical and chemical stability and are made of high-quality PP (equivalent to US pharmacopoeia USP Class VI). Caps are made of PE.

- Centrifugation: conical up to 16000 x g and with rim up to 3000 x g
- Free from DNase and RNase
- Endotoxin level: <0.5 EU/ml
- Sterile goods are gamma-sterilized (SAL 10⁻⁶)
- Available in bags or racks



Description	Capacity ml	Sterile	Ø mm	Height mm	PK	Art. no.
Conical, in bags	15	No	16	120	500	7.696 712
Conical, separate tubes and caps	15	No	16	120	500	7.696 713
Conical, in bags	15	Yes	16	120	500	7.696 714
Conical, in racks	15	Yes	16	120	500	7.696 715
Conical, in bags	50	No	28	115	500	7.696 717
Conical, separate tubes and caps	50	No	28	115	500	7.696 718
Conical, in bags	50	Yes	28	115	500	7.696 719
Conical, in racks	50	Yes	28	115	300	7.696 720
Self standing, in bags	50	No	28	115	500	7.696 722
Self standing, separate tubes and caps	50	No	28	115	500	7.696 723
Self standing, in bags	50	Yes	28	115	500	7.696 724



CENTRIFUGE TUBES, AMBER, PP

The amber centrifuge tubes from LABSOLUTE® are ideal for light-sensitive samples.

- Free from DNase and RNase
- Endotoxin level: <0.5 EU/ml
- Gammasterile (SAL 10⁻⁶)

Capacity ml	Ø mm	Height mm	PK	Art. no.
15	17	120	500	7.696 716
50	30	115	500	7.696 721

QUALITATIVE FILTER PAPERS

The qualitative filter papers are manufactured from pure cellulose with a proportion of alpha-cellulose of almost 100 %. The ash content is about 0.06 %.



TECHNICAL DATA

Grade	Description	Particle retention µm	Filtration velocity s*	Weight g/m ²	Thickness mm
2005	Fast filtering	12–15	10	84	0.20
2010	Medium fast filtering	8–12	20	84	0.17
2015	Medium fast/slow filtering	5–8	50	87	0.16
2020	Medium fast/slow filtering	5–13	88	73	0.16
2025	Slow filtering	3–5	100	84	0.15
2030	Very slow filtering	2–3	180	84	0.14
2035	Very slow filtering	2	300	80	0.14

* due to DIN 53137

CIRCLES, QUALITATIVE, GRADE 2005,



Ø mm	PK	Art. no.
42.5	100	7.697 990
55	100	7.697 991
70	100	7.697 992
90	100	7.697 993
110	100	7.697 994
125	100	7.697 995
150	100	7.697 996
185	100	7.697 997
210	100	7.697 998
240	100	7.697 999

FOLDED FILTERS, QUALITATIVE, GRADE 2005



Ø mm	PK	Art. no.
70	100	7.697 907
90	100	7.697 904
110	100	7.697 905
125	100	7.697 906
150	100	7.697 900
185	100	7.697 901
240	100	7.697 902
320	100	7.697 903

CIRCLES, QUALITATIVE, GRADE 2010



Ø mm	PK	Art. no.
42.5	100	7.698 090
55	100	7.698 091
70	100	7.698 092
90	100	7.698 093
110	100	7.698 094
125	100	7.698 095
150	100	7.698 096
185	100	7.698 097
210	100	7.698 098
240	100	7.698 099

FOLDED FILTERS, QUALITATIVE, GRADE 2010



Ø mm	PK	Art. no.
70	100	7.697 865
90	100	7.697 866
110	100	7.697 867
125	100	7.697 860
150	100	7.697 868
185	100	7.697 861
240	100	7.697 862
320	100	7.697 869
500	100	7.697 863
580 x 580	100	7.697 864

CIRCLES, QUALITATIVE, GRADE 2015



Ø mm	PK	Art. no.
42.5	100	7.697 980
55	100	7.697 981
70	100	7.697 982
90	100	7.697 983
110	100	7.697 984
125	100	7.697 985
150	100	7.697 986
185	100	7.697 987
210	100	7.697 988
240	100	7.697 989

FOLDED FILTERS, QUALITATIVE, GRADE 2015



\emptyset mm	PK	Art. no.
70	100	7.697 899
90	100	7.697 870
110	100	7.697 871
125	100	7.697 872
150	100	7.697 873
185	100	7.697 874
240	100	7.697 875
270	100	7.697 876
320	100	7.697 877
385	100	7.697 878
500	100	7.697 879

CIRCLES, QUALITATIVE, GRADE 2020



\emptyset mm	PK	Art. no.
42.5	100	7.697 970
55	100	7.697 971
70	100	7.697 972
90	100	7.697 973
110	100	7.697 974
125	100	7.697 975
150	100	7.697 976
185	100	7.697 977
210	100	7.697 978
240	100	7.697 979

FOLDED FILTERS, QUALITATIVE, GRADE 2020



\emptyset mm	PK	Art. no.
70	100	7.697 880
90	100	7.697 889
110	100	7.697 881
125	100	7.697 882
150	100	7.697 883
185	100	7.697 884
240	100	7.697 885
270	100	7.697 886
320	100	7.697 887
385	100	7.697 888

CIRCLES, QUALITATIVE, GRADE 2025



Ø mm	PK	Art. no.
42.5	100	7.697 960
55	100	7.697 961
70	100	7.697 962
90	100	7.697 963
110	100	7.697 964
125	100	7.697 965
150	100	7.697 966
185	100	7.697 967
210	100	7.697 968
240	100	7.697 969

FOLDED FILTERS, QUALITATIVE, GRADE 2025



Ø mm	PK	Art. no.
70	100	7.698 040
90	100	7.698 041
110	100	7.698 042
125	100	7.698 043
150	100	7.698 044
185	100	7.697 853
240	100	7.697 854
320	100	7.698 045

CIRCLES, QUALITATIVE, GRADE 2030



Ø mm	PK	Art. no.
42.5	100	7.697 950
55	100	7.697 951
70	100	7.697 952
90	100	7.697 953
110	100	7.697 954
125	100	7.697 955
150	100	7.697 956
185	100	7.697 957
210	100	7.697 958
240	100	7.697 959

FOLDED FILTERS, QUALITATIVE, GRADE 2030



\emptyset mm	PK	Art. no.
70	100	7.698 050
90	100	7.698 051
110	100	7.698 052
125	100	7.698 053
150	100	7.697 855
185	100	7.697 852
240	100	7.698 054
320	100	7.698 055

CIRCLES, QUALITATIVE, GRADE 2035



\emptyset mm	PK	Art. no.
42.5	100	7.699 010
55	100	7.699 011
70	100	7.699 012
90	100	7.699 013
110	100	7.699 014
125	100	7.699 015
150	100	7.699 016
185	100	7.699 017
210	100	7.699 018
240	100	7.699 019

QUALITATIVE FILTER PAPERS, WET-STRENGTHENED

The wet-strengthened filter papers exhibit a very high degree of mechanical stability. They are resistant against acidic and alkaline solutions and are suitable for pressure and vacuum filtration. The qualitative filter papers are manufactured from pure cellulose with a proportion of alpha-cellulose of almost 100 %. The ash content is about 0.06 %.

TECHNICAL DATA

Grade	Description	Particle retention µm	Filtration velocity s*	Weight g/m ²	Thickness mm
2105	Fast filtering	12–15	10	84	0.20
2110	Medium fast filtering	17–30	22	73	0.17
2115	Medium fast/slow filtering	5–8	50	84	0.15
2130	Very slow filtering	2–3	180	84	0.14

* due to DIN 53137

CIRCLES, QUALITATIVE, WET STRENGTHENED, GRADE 2105



Ø mm	PK	Art. no.
42.5	100	7.699 040
55	100	7.699 041
70	100	7.699 042
90	100	7.699 043
110	100	7.699 044
125	100	7.699 045
150	100	7.699 046
185	100	7.699 047
210	100	7.699 048
240	100	7.699 049

FOLDED FILTERS, QUALITATIVE, WET STRENGTHENED, GRADE 2105



Ø mm	PK	Art. no.
70	100	7.697 898
90	100	7.697 896
110	100	7.697 897
125	100	7.697 890
150	100	7.697 891
185	100	7.697 892
240	100	7.697 893
270	100	7.697 894
320	100	7.697 895

CIRCLES, QUALITATIVE, WET STRENGTHENED, GRADE 2110



\emptyset mm	PK	Art. no.
42.5	100	7.699 020
55	100	7.699 021
70	100	7.699 022
90	100	7.699 023
110	100	7.699 024
125	100	7.699 025
150	100	7.699 026
185	100	7.699 027
210	100	7.699 028
240	100	7.699 029

FOLDED FILTERS, QUALITATIVE, WET STRENGTHENED, GRADE 2110



\emptyset mm	PK	Art. no.
70	100	7.697 917
100	100	7.697 910
110	100	7.697 911
130	100	7.697 912
150	100	7.697 913
190	100	7.697 914
250	100	7.697 915
270	100	7.697 918
330	100	7.697 916

CIRCLES, QUALITATIVE, WET STRENGTHENED, GRADE 2115



\emptyset mm	PK	Art. no.
42.5	100	7.698 020
55	100	7.698 021
70	100	7.698 022
90	100	7.698 023
110	100	7.698 024
125	100	7.698 025
150	100	7.698 026
185	100	7.698 027
210	100	7.698 028
240	100	7.698 029

FOLDED FILTERS, QUALITATIVE, WET STRENGTHENED, GRADE 2115



Ø mm	PK	Art. no.
70	100	7.698 060
90	100	7.698 061
110	100	7.698 062
125	100	7.698 063
150	100	7.698 064
185	100	7.698 065
240	100	7.698 066
270	100	7.698 067
320	100	7.698 068

CIRCLES, QUALITATIVE, WET STRENGTHENED, GRADE 2130



Ø mm	PK	Art. no.
42.5	100	7.698 000
55	100	7.698 001
70	100	7.698 002
90	100	7.698 003
110	100	7.698 004
125	100	7.698 005
150	100	7.698 006
185	100	7.698 007
210	100	7.698 008
240	100	7.698 009

QUANTITATIVE FILTER PAPERS, ASHLESS

The filter papers for quantitative analyses are made of 100 % cotton linters. For maximum purity the papers are acid-washed and cleaned with demineralized water. Ash content is 0.007 %.



TECHNICAL DATA

Grade	Colour code	Description	Particle retention µm	Filtration velocity s*	Weight g/m ²	Thickness mm
1005	Black ribbon	Fast filtering	12–15	10	84	0.18
1010	White ribbon	Medium fast filtering	8–12	20	84	0.17
1015	Red ribbon	Medium fast/slow filtering	5–8	50	84	0.16
1020	Green ribbon	Slow filtering	3–5	100	84	0.15
1025	Blue ribbon	Very slow filtering	2–3	180	84	0.14

* due to DIN 53137

CIRCLES, QUANTITATIVE, BLACK RIBBON EQUIVALENT, GRADE 1005



Ø mm	PK	Art. no.
42.5	100	7.697 827
55	100	7.697 828
70	100	7.697 820
90	100	7.697 821
110	100	7.697 822
125	100	7.697 823
150	100	7.697 824
185	100	7.697 825
210	100	7.699 050
240	100	7.697 826

CIRCLES, QUANTITATIVE, WHITE RIBBON EQUIVALENT, GRADE 1010



Ø mm	PK	Art. no.
42.5	100	7.697 840
55	100	7.697 841
70	100	7.697 842
90	100	7.697 843
110	100	7.697 844
125	100	7.697 845
150	100	7.697 846
185	100	7.697 847
210	100	7.697 848
240	100	7.697 849

CIRCLES, QUANTITATIVE, RED RIBBON EQUIVALENT, GRADE 1015



Ø mm	PK	Art. no.
42.5	100	7.697 818
55	100	7.697 810
70	100	7.697 811
90	100	7.697 812
110	100	7.697 813
125	100	7.697 814
150	100	7.697 815
185	100	7.697 816
210	100	7.699 051
240	100	7.697 817

CIRCLES, QUANTITATIVE, GREEN RIBBON EQUIVALENT, GRADE 1020



Ø mm	PK	Art. no.
42.5	100	7.697 830
55	100	7.697 831
70	100	7.697 832
90	100	7.697 833
110	100	7.697 834
125	100	7.697 835
150	100	7.697 836
185	100	7.697 837
210	100	7.697 838
240	100	7.697 839

CIRCLES, QUANTITATIVE, BLUE RIBBON EQUIVALENT, GRADE 1025



Ø mm	PK	Art. no.
42.5	100	7.697 808
55	100	7.697 809
70	100	7.697 800
90	100	7.697 801
110	100	7.697 802
125	100	7.697 803
150	100	7.697 804
185	100	7.697 805
210	100	7.699 052
320	100	7.697 807
240	100	7.697 806

QUANTITATIVE FILTER PAPERS, ASHLESS, WET-STRENGTHENED

The wet-strengthened filter papers exhibit a very high degree of mechanical stability. They are resistant against acidic and alkaline solutions and are suitable for pressure and vacuum filtration. They are made of 100 % cotton linters. For maximum purity the papers are acid-washed and cleaned with demineralized water. Ash content is 0.007 %.

TECHNICAL DATA

Grade	Description	Particle retention µm	Filtration velocity s*	Weight g/m ²	Thickness mm
1105	Fast filtering	12–15	10	84	0.18
1110	Medium fast filtering	8–12	20	84	0.17
1115	Medium fast/slow filtering	5–8	50	84	0.16
1125	Very slow filtering	2,5	180	84	0.15

* due to DIN 53137

CIRCLES, QUANTITATIVE, WET STRENGTHENED, GRADE 1105



Ø mm	PK	Art. no.
42.5	100	7.697 940
55	100	7.697 941
70	100	7.697 942
90	100	7.697 943
110	100	7.697 944
125	100	7.697 945
150	100	7.697 946
185	100	7.697 947

CIRCLES, QUANTITATIVE, WET STRENGTHENED, GRADE 1110



Ø mm	PK	Art. no.
42.5	100	7.697 930
55	100	7.697 931
70	100	7.697 932
90	100	7.697 933
110	100	7.697 934
125	100	7.697 935
150	100	7.697 936
185	100	7.697 937

CIRCLES, QUANTITATIVE, WET-STRENGTHENED, GRADE 1115



Ø mm	PK	Art. no.
42.5	100	7.699 030
55	100	7.699 031
70	100	7.699 032
90	100	7.699 033
110	100	7.699 034
125	100	7.699 035
150	100	7.699 036
185	100	7.699 037

CIRCLES, QUANTITATIVE, WET STRENGTHENED, GRADE 1125



Ø mm	PK	Art. no.
42.5	100	7.697 921
55	100	7.697 922
70	100	7.697 923
90	100	7.697 924
110	100	7.697 926
125	100	7.697 927
150	100	7.697 928
185	100	7.697 929

EXTRACTION THIMBLES, CELLULOSE

The LABSOLUTE® extraction thimbles are made of 100 % cellulose. They have a high mechanical stability and are free from binders. The extraction thimbles have a wall thickness of about 1 mm and a pore size of approximately 5 µm. They are perfect for all kind of Soxhlet extractions as well as for the separation of liquid and solid particles out of air and gases.

Int. diam. mm	Length mm	PK	Art. no.
22	80	25	7.699 210
30	80	25	7.699 211
33	80	25	7.699 212
33	94	25	7.699 213



MICRO GLASS FIBRE FILTERS

The glass fibre filters from LABSOLUTE® are made of borosilicate glass without binder and are thus biologically inert. The filters provide a high retention power and simultaneously enable elevated flow rates, which makes them applicable for almost every area of laboratory filtration. Among other things, they are used for clarification of protein solutions, air or water monitoring and for gravimetric and waste water analyses. Furthermore, they can be ideally used as prefilters for membranes.

- Very high resistance to almost all kinds of chemicals
- Temperature-resistant up to 500 °C
- Autoclavable



MICRO GLASS FIBRE FILTERS, SLOW FILTERING

- Particle retention: 0.7 µm
- Thickness: 0.45 mm
- Weight: 75 g/m²

Ø mm	PK	Art. no.
25	100	7.699 900
47	100	7.699 901
70	50	7.699 902
90	25	7.699 903
110	25	7.699 904

MICRO GLASS FIBRE FILTERS, MEDIUM FAST FILTERING

- Particle retention: 1.2 µm
- Thickness: 0.26 mm
- Weight: 53 g/m²

Ø mm	PK	Art. no.
25	100	7.699 905
47	100	7.699 906
70	100	7.699 907
90	100	7.699 908
110	100	7.699 909
102 x 254	50	7.699 910

MICRO GLASS FIBRE FILTERS, FAST FILTERING

- Particle retention: 1.6 µm
- Thickness: 0.26 mm
- Weight: 52 g/m²

Ø mm	PK	Art. no.
25	100	7.699 911
47	100	7.699 912
70	100	7.699 913
90	100	7.699 914
110	100	7.699 915
125	100	7.699 916
150	100	7.699 917

MEMBRANE FILTERS

LABSOLUTE® offers a wide selection of membrane filters for microfiltration. You can choose between several membrane materials, diameters and pore sizes. Usage of membrane filters is recommended both for filtration of air and fluid and is optimally suited in particular for retention of very small particles. Precisely defined micro pores and exceeding stability - this combination makes it a good choice for applications in the microbiological sector, as well as in the pharmaceutical, food and water analysis industry.



CELLULOSE ACETATE MEMBRANE FILTERS, WHITE

Cellulose acetate membranes are characterized by an extraordinary high flow capacity and dimensional stability. The filters have good thermal resistance and can be used in various applications.

- Hydrophilic
- Low protein binding capacity
- Maximum operating temperature: 135 °C
- Non-sterile
- Autoclavable

Ø mm	Pore size µm	PK	Art. no.
47	0.22	100	7.699 920
50	0.22	100	7.699 921
142	0.22	25	7.699 922
47	0.45	100	7.699 925
50	0.45	100	7.699 926
142	0.45	25	7.699 927

NITROCELLULOSE MEMBRANE FILTERS

The uniform pore structure of the nitrocellulose membranes allow high throughput and diffusion rates and guarantee ultrapure and consistent results due to a very low extent of extractables.

- Hydrophilic
- High protein binding capacity
- Maximum operating temperature: 180 °C
- Autoclavable

NITROCELLULOSE MEMBRANE FILTERS, WHITE

- Non-sterile

Ø mm	Pore size µm	PK	Art. no.
25	0.45	100	7.699 930
47	0.45	100	7.699 931
50	0.45	100	7.699 932
142	0.45	25	7.699 933
47	0.80	100	7.699 934
50	0.80	100	7.699 935
47	1.20	100	7.699 936
50	1.20	100	7.699 937
47	8.00	100	7.699 938
50	8.00	100	7.699 939

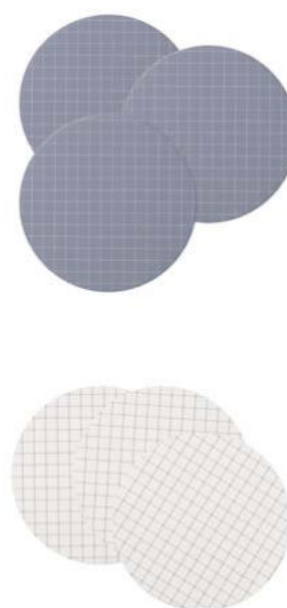


NITROCELLULOSE MEMBRANE FILTERS, GRID PATTERN

Membranes featuring a grid pattern are ideally suited for determination of colony count, particle analysis and microscopy. Differently coloured filters guarantee a best possible contrast and easy colony counting.

- Sterile and non-sterile

Ø mm	Pore size µm	Sterile	Membrane colour	PK	Art. no.
47	0.45	Yes	Black, white grid	100	7.699 940
50	0.45	Yes	Black, white grid	100	7.699 941
50	0.45	No	Black, white grid	100	7.699 942
47	0.45	Yes	White, black grid	200	7.699 945
50	0.45	Yes	White, black grid	100	7.699 946



REGENERATED CELLULOSE MEMBRANE FILTERS, WHITE



Filters made of regenerated cellulose membrane provide excellent resistance to almost all kinds of organic solvents and high temperatures.

- Hydrophilic
- Low protein binding capacity
- Maximum operating temperature: 134 °C
- Non-sterile
- Autoclavable

Ø mm	Pore size µm	PK	Art. no.
47	0.22	100	7.699 950
47	0.45	100	7.699 951

POLYCARBONATE TRACK ETCHED (PCTE) MEMBRANE FILTERS, WHITE



PCTE membrane filters are produced in a two-step manufacturing process which complies with high quality standards. The membrane consists of a thin PC film with precisely defined pores ensuring ultrapure and consistent filtration results.

- Hydrophilic
- Low protein binding capacity
- Maximum operating temperature: 140 °C
- Non-sterile
- Autoclavable

Ø mm	Pore size µm	PK	Art. no.
25	0.45	100	7.699 955
47	0.45	100	7.699 956

SYRINGE FILTERS

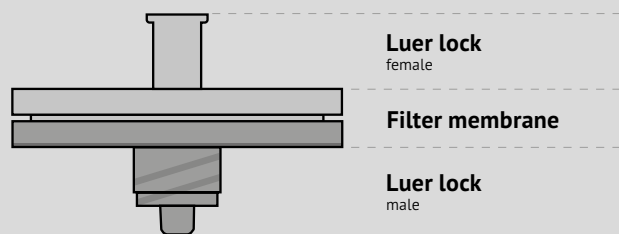
LABSOLUTE® offers a comprehensive range of syringe filters that have been developed especially for the efficient filtration of aqueous and organic solutions and for ventilation. The choice of different housing diameters, membrane types and pore sizes offers the ideal solution for your applications. Intensive quality checks ensure consistently high quality, both of the membrane material and the filter unit as a whole, for all of the filters we supply.

- Made without the use of adhesives: the housing and membrane are welded
- Sterile versions: 100 % sterility thanks to gamma radiation
- Equipped with Luer connections
- The filters are printed, both with the membrane type and the pore size, excluding the possibility of confusion

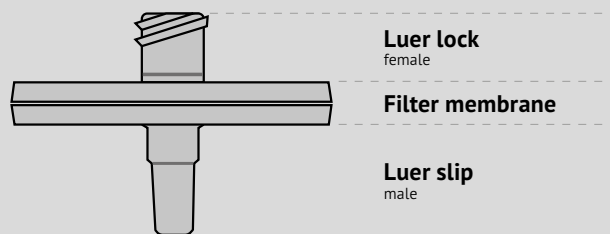
SETUP

The syringe filters have either acrylic or PP housing. Both housing versions have Luer connections, and the membrane is secured in the housing so that the sample fluid cannot flow around the membrane.

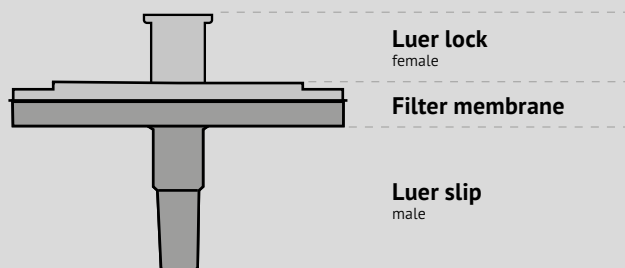
Acrylic housing



PP housing

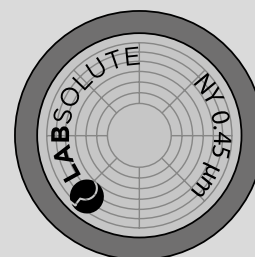


PRO Fill (PP housing)



LABELLING

The membrane type and pore size are printed on the packaging and also on each individual filter in order to avoid mistakes, even if the filters are no longer in their original packaging.



SYRINGE FILTERS, 13 MM

LABSOLUTE® syringe filters with a filter membrane diameter of 13 mm are ideal for the preparation of small-volume samples in which a very small dead volume is particularly important. The non-sterile filters are packed in quantities of 500 in PP pouches, while sterile filters are packaged individually in blisters in quantities of 50 per box. Acrylic housing.



- Membrane diameter: 13 mm
- Filtering surface: 0.6 cm²
- Housing diameter: 18 mm
- Pressure rating: 5.0 bar
- Luer connections: female Luer lock, male Luer lock

Filter material	Sterile	Pore size µm	Colour	PK	Art. no.
Cellulose acetate (CA)	No	0.22	Blue	500	7.699 800
Cellulose acetate (CA)	No	0.45	Yellow	500	7.699 801
Cellulose acetate (CA)	Yes	0.22	Blue	50	7.699 802
Cellulose acetate (CA)	Yes	0.45	Yellow	50	7.699 803

SYRINGE FILTERS, PROFILL, 17 MM

The colour-coded ring enables easy identification of the filter's membrane type. Furthermore, membrane type and pore size are printed onto the PE bag in which the filters are tamper-proof evidently packed with 100 pieces each. An additional blue reclosable PP box offers further protection for the filters during transportation. PP housing.



- Membrane diameter: 17 mm
- Filtering surface: 1.33 cm²
- Housing diameter: 22.3 mm
- Pressure rating: 7.9 bar
- Luer connections: female Luer lock, male Luer slip

Filter material	Pore size µm	Colour	PK	Art. no.
Nylon (PA)	0.20	Purple	100	7.629 086
Nylon (PA)	0.45	Green	100	7.670 320
Polytetrafluoroethylene (PTFE)	0.20	Blue	100	7.629 127
Polytetrafluoroethylene (PTFE)	0.45	Yellow	100	7.656 547
Regenerated cellulose (RC)	0.20	Grey	100	7.636 877
Regenerated cellulose (RC)	0.45	Brown	100	7.629 480
Glass fibre prefilter/polyvinylidene difluoride (PVDF)	0.45	Red	100	7.629 934

SYRINGE FILTERS, 25 MM

LABSOLUTE® syringe filters with a filter membrane diameter of 25 mm are ideal for the preparation of samples with a volume ranging from 1.5 ml to 100 ml. The non-sterile filters are packed in quantities of 500 in PP pouches, while sterile filters are packaged individually in blisters in quantities of 50 per box.

- Housing diameter: 33 mm
- Membrane diameter: 25 mm
- Filtering surface: 4.6 cm²
- Pressure rating: 5.0 bar
- Luer connections: acrylic housing with female Luer lock and male Luer lock; PP housing with female Luer lock and male Luer slip

Filter material	Housing	Sterile	Pore size µm	Colour	PK	Art. no.
Cellulose acetate (CA)	Acrylic	No	0.22	Blue	500	7.699 820
Cellulose acetate (CA)	Acrylic	No	0.45	Yellow	500	7.699 821
Cellulose acetate (CA)	Acrylic	Yes	0.22	Blue	50	7.699 822
Cellulose acetate (CA)	Acrylic	Yes	0.45	Yellow	50	7.699 823
Nylon (NY)	PP	No	0.20	Transparent	500	7.699 814
Nylon (NY)	PP	No	0.45	Transparent	500	7.699 815
Polyethersulfone (PES)	PP	No	0.22	Transparent	500	7.699 818
Polyethersulfone (PES)	PP	No	0.45	Transparent	500	7.699 819
Polyvinylidene difluoride (PVDF)	PP	No	0.22	Transparent	500	7.699 816
Polyvinylidene difluoride (PVDF)	PP	No	0.45	Transparent	500	7.699 817
Polytetrafluoroethylene (PTFE)	PP	No	0.20	Transparent	500	7.699 810
Polytetrafluoroethylene (PTFE)	PP	No	0.45	Transparent	500	7.699 811
Regenerated cellulose (RC)	PP	No	0.20	Transparent	500	7.699 812
Regenerated cellulose (RC)	PP	No	0.45	Transparent	500	7.699 813



SYRINGE FILTERS WITH AND WITHOUT GLASS FIBRE PREFILTERS, PROFILL, 30 MM

The colour-coded ring enables easy identification of the filter's membrane type. Furthermore, membrane type and pore size are printed onto the PE bag in which the filters are tamper-proof evidently packed with 100 pieces each. An additional blue reclosable PP box offers further protection for the filters during transportation. PP housing.



- Membrane diameter: 30 mm
- Filtering surface: 4.91 cm²
- Housing diameter: 35.6 mm
- Pressure rating: 6.2 bar
- Luer connections: female Luer lock, male Luer slip

Filter material	Pore size µm	Colour	PK	Art. no.
Glass fibre prefilter/nylon (PA)	0.20	Purple	100	7.638 848
Glass fibre prefilter/polytetrafluoroethylene (PTFE)	0.20	Blue	100	6.239 018
Glass fibre prefilter/polytetrafluoroethylene (PTFE)	0.45	Yellow	100	7.638 421
Glass fibre prefilter/regenerated cellulose (RC)	0.20	Grey	100	7.629 428
Regenerated cellulose (RC)	0.45	Brown	100	7.629 128
Polyvinylidene difluoride (PVDF)	0.45	Red	100	7.629 935
Glass fibre prefilter/GL microfibre	1.20	Orange	100	7.671 876

FILTER FLASKS, WITH GLASS OLIVE, BOROSILICATE GLASS 3.3

The LABSOLUTE® Erlenmeyer shaped filter flasks with glass olive made of high-quality borosilicate glass 3.3 comply with the ISO 6556 and DIN 12476 standards. Together with the LABSOLUTE® Buchner funnels and suitable rubber gaskets, they form a perfect unit for almost all kinds of filtration applications in chemical labs. All LABSOLUTE® filter flasks are autoclavable and, because of their high wall thickness, also vacuum-proof.

We recommend a vacuum tube with an inner diameter of 8 mm to connect the filter flasks to a vacuum pump.

Due to the glass olive, the flasks do not comply with the requirements of the German product safety law (ProdSG).



Capacity ml	Neck Ø mm	Height mm	PK	Art. no.
100	17	107	1	7.690 200
250	28	158	1	7.690 201
500	34	188	1	7.690 202
1000	37	242	1	7.690 203
2000	41	288	1	7.690 204

RUBBER GASKETS

Conical LABSOLUTE® gaskets made of grey natural rubber are the best sealing between a filter flask and a Buchner funnel. The gaskets are available in eight different sizes with a bottom diameter between 12 mm and 66 mm or in a useful assortment.

RUBBER GASKETS

Description	Top Ø mm	Bottom Ø mm	Height mm	Wall thickness mm	PK	Art. no.
Size 1	21	12.0	18	2.5	1	7.690 091
Size 2	27	17.0	20	3.0	1	7.690 092
Size 3	33	21.0	24	3.0	1	7.690 093
Size 4	41	27.5	27	4.0	1	7.690 094
Size 5	53	33.0	34	5.0	1	7.690 095
Size 6	68	48.0	35	5.5	1	7.690 096
Size 7	78	58.0	35	6.0	1	7.690 097
Size 8	89	66.0	40	6.5	1	7.690 098



RUBBER GASKET ASSORTMENT

The assortment consists of one gasket each with the following lower diameters: 12, 17, 21, 27.5, 33, 48, 58 and 66 mm.

Description	PK	Art. no.
Rubber gasket assortment	1	7.690 099



BUCHNER FUNNELS, PORCELAIN

The LABSOLUTE® Buchner funnels are made of high-quality porcelain and comply with DIN 12905. They are glazed on the inside and outside and are characterized by an excellent resistance to lyes and acids with the exception of hydrofluoric acid.

Int. Ø mm	Filter Ø mm	PK	Art. no.
48	45	1	7.694 954
62	55	1	7.694 955
77	70	1	7.694 956
97	90	1	7.694 957
116	110	1	7.694 958
130	125	1	7.694 959
156	150	1	7.694 960
192	180	1	7.694 961
248	240	1	7.694 962
296	270	1	7.694 963
334	320	1	7.694 964



